The Journal of Parasitology

The Official Organ of the American Society of Parasitologists

Founded by HENRY BALDWIN WARD

VOLUME XXVIII
1942

EDITORIAL BOARD

HAROLD W. BROWN
University of North Carolina
ASA C. CHANDLER
Rice Institute
WILLIAM W. CORT
Johns Hopkins University
RICHARD P. HALL
New York University
E. HAROLD HINMAN
Tennessee Valley Authority
HAROLD KIRBY, Jr.
University of California
HAROLD W. MANTER
University of Nebraska
REGINALD D. MANWELL
Syracuse University
JUSTUS F. MUELLER
Syracuse University
CORNELIUS B. PHILIP
U. S. Public Health Service
BENJAMIN SCHWARTZ
U. S. Bureau of Animal Industry
ERNEST E. TYZZER
Harvard University

EDITORIAL COMMITTEE

NORMAN R. STOLL, Chairman
Rockefeller Institute, Princeton, N. J.
WILLIAM H. TALIAFERRO
University of Chicago
WILLIAM A. RILEY
University of Minnesota

THE SCIENCE PRESS PRINTING COMPANY
LANCASTER, PENNSYLVANIA

CONTENTS OF VOLUME 28

FEBRUARY, 1942, NUMBER 1.

J. E. Ackert, Portrait ..... Frontispiece

Ackert, J. E. Natural Resistance to Helminthic Infections 1

Brackett, Sterling. Five New Species of Avian Schistosomes from Wisconsin and Michigan with the Life Cycle of *Gigantobilharzia gyrauli* (Brackett, 1940) 25

Wood, Sherwin F. Reactions of Man to the Feeding of Reduviid Bugs .. 43

Byrd, Elon E. and Robert J. Reiber. Strigeid Trematodes of the Alligator, with Remarks on the Prostate Gland and Terminal Portions of the Genital Ducts 51

Olivier, Louis and W. W. Cort. An Experimental Test of the Life Cycle Described for *Cotylurus communis* (Hughes) 75

Meglitsch, Paul A. On Two New Species of Myxosporidia from Illinois Fishes 83

Research Notes.

Rothschild, Miriam. A Further Note on Life History Experiments with *Cryptocotyle lingua* (Creplin, 1825) 91

Ishii, Nobutaro. New Parasite Records from the Ruffed Grouse 92

Wallace, F. G. A Device for Administering Particulate Material to Mice 92

Meleney, Henry E. The Duration of Human Infection with *Endamoeba histolytica* and Other Intestinal Protozoa 93

Hawkins, Philip A. *Sigmodon hispidus hispidus,* a New Host for the Strobilocercus of *Taenia taeniaeformis* 94

APRIL, 1942, NUMBER 2.

Sawitz, Willi. The Buoyancy of Certain Nematode Eggs 95

Penner, Lawrence R. Studies on Dermatitis-Producing Schistosomes in Eastern Massachusetts, with Emphasis on the Status of *Schistosomatium pathlocopticum* Tanabe, 1923 103

Harkema, Reinard. *Pharyngostomoides procyonis* n.g., n. sp. (Strigeida), a Trematode from the Raccoon in North Carolina and Texas 117

Glaser, R. W., E. E. McCoy and H. B. Girth. The Biology and Culture of *Neoaplectana chresima,* a New Nematode Parasitic in Insects 123

Russell, Paul F. and Badri Nath Mohan. Some Mosquito Hosts to Avian Plasmodia with Special Reference to *Plasmodium gallinaceum* 127

Butler, Robert L., Jr. and Reed O. Christenson. A Simple Apparatus for Determining the Viability of Embryonated Helminth Ova 131

Chandler, Asa C. Helminths of Tree Squirrels in Southeast Texas 135

Polk, Seigul J. *Hymenolepis mastigopraedita,* a New Cestode from a Pintail Duck 141

Osimani, J. J. *Haemogregarina triatomae* n. sp. from a South American Lizard *Tupinambis teguixin* Transmitted by the Reduviid *Triatoma rubrovaria* 147

Culbertson, James T. and Walter R. Kessler. Age Resistance of Mice to *Trypanosoma cruzi* 155

Tucker, Hal. *Nematodirus tortuosus* n. sp. (Nematoda) from the Rat, *Neotoma* 159

Research Notes.

Carvalho, José Candido M. Note on the Association of the Tick, *Ornithodoros talaje* (Guérin-Meneville), with Bat Infestations in Human Dwellings in Brazil 165

Walton, A. C. *Paralaeuris cuckleri* N. SP. (NEMATODA) FROM THE IGUANA (*Cyclura cornuta*) 165
Fischthal, Jacob H. A *Paragordius* LARVA (GORDIACEA) IN A TREMATODE 167
Huizinga, Henry. *Eimeria antelocaprae,* A NEW COCCIDIUM FROM THE AMERICAN ANTELOPE 167
Whitlock, J. H. STUDIES UPON *Strongylus vulgaris.* VI. TESTS WITH ORGANIC COPPER SALTS 168
Summers, William A. INTESTINAL PARASITES IN BOYS OF THE FLORIDA INDUSTRIAL SCHOOL 169
Kartman, Leo. A NOTE ON VITAMINS IN RELATION TO ECTOPARASITE RESISTANCE 170
COMMUNICATIONS.
Finlay, C. E. CARLOS FINLAY AND YELLOW FEVER 172
Hartwell, Wayne M. CONSERVATION OF SCHOLARLY JOURNALS 174

JUNE, 1942, NUMBER 3.

ROBERT WILLIAM HEGNER (1880–1942) 175
Herber, E. C. LIFE HISTORY STUDIES ON TWO TREMATODES OF THE SUBFAMILY NOTOCOTYLINAE 179
Culbertson, James T. ACTIVE IMMUNITY IN MICE AGAINST *Trichinella spiralis* 197
Culbertson, James T. PASSIVE TRANSFER OF IMMUNITY TO *Trichinella spiralis* IN THE RAT 203
Greenfield, Sylvia H. AGE RESISTANCE OF THE ALBINO RAT TO *Cysticercus fasciolaris* 207
Carvalho, José Candido M. STUDIES ON SOME GORDIACEA OF NORTH AND SOUTH AMERICA 213
Peres, Charles E. *Trichinella spiralis.* II. INCIDENCE OF INFECTION IN HOGS AND RATS IN THE NEW ORLEANS AREA 223
Chandler, Asa C. *Mesocestoides manteri* N. SP. FROM A LYNX, WITH NOTES ON OTHER NORTH AMERICAN SPECIES OF *Mesocestoides* 227
MacDougall, Mary Muriel. A STUDY OF TEMPERATURE EFFECTS ON GREGARINES OF *Tenebrio molitor* LARVAE 233
Herde, Karl E. A NEW SPIRUROID NEMATODE, *Thelazia buteonis,* FROM SWAINSON'S HAWK 241
RESEARCH NOTES.
Roth, Hans and N. O. Christensen. OCCURRENCE IN THE HORSE OF TWO PARASITES OF CATTLE, *Ostertagia ostertagi* (STILES, 1892) AND *Cooperia oncophora* (RAILLIET, 1898) 245
Wolfson, Fruma. ORAL TRANSMISSION OF *Plasmodium cathemerium* BY MEANS OF TISSUES 245
Beltran, Enrique and Luis Vargas. THE INTRAVENOUS INOCULATION OF SPOROZOITES OF *Plasmodium gallinaceum* 246
AMERICAN SOCIETY OF PARASITOLOGISTS.
SEVENTEENTH ANNUAL MEETING, DALLAS, TEXAS, DECEMBER 29 TO 31, 1941 247
CHANGES IN MEMBERSHIP 250
REPORT OF THE COMMITTEE ON TERMINOLOGY OF STRAINS OF AVIAN MALARIA 250

AUGUST, 1942, NUMBER 4.

Chandler, Asa C. THE HELMINTHS OF RACCOONS IN EAST TEXAS 255
Fischthal, Jacob H. THREE NEW SPECIES OF *Phyllodistomum* (TREMATODA: GORGODERIDAE) FROM MICHIGAN FISHES 269
Penn, George H., Jr. THE LIFE HISTORY OF *Porocephalus crotali,* A PARASITE OF THE LOUISIANA MUSKRAT 277
Chen, H. T. THE METACERCARIA AND ADULT OF *Centrocestus formosanus* (NISHIGORI, 1924), WITH NOTES ON THE NATURAL INFECTION OF RATS AND CATS WITH *C. armatus* (TANABE, 1922) 285

Bellamy, R. Edward. Observations on the Macroscopic Species-Identification of Larval *Anopheles* in Georgia 299
Kirby, Harold. A Parasite of the Macronucleus of *Vorticella* 311
von Brand, Theodor and Jean Saurwein. Further Studies upon the Chemistry of *Macracanthorhynchus hirudinaceus* 315
Reid, W. M. Certain Nutritional Requirements of the Fowl Cestode *Raillietina cesticillus* (Molin) as Demonstrated by Short Periods of Starvation of the Host 319
Spurlock, G. M. and J. T. Emlen, Jr. *Hypodectes chapini* n. sp. (Acarina) from the Red-Shafted Flicker 341
Research Notes.
Summers, William A. A Modification of Zinc Sulfate Centrifugal Flotation Method for Recovery of Helminth Ova in Formalinized Feces 345
Levine, P. P. The Periodicity of Oöcyst Discharge in Coccidial Infection of Chickens 346
Penn, George H., Jr. Parasitological Survey of Louisiana Muskrats 348
McNeil, E. and W. R. Hinshaw. *Cochlosoma rostratum* from the Turkey 349
Rothschild, Miriam. A Seven-Year-Old Infection of *Cryptocotyle lingua* Creplin in the Winkle *Littorina littorea* L. 350

OCTOBER, 1942, NUMBER 5.

Threlkeld, W. L. and M. E. Henderson. Notes on the Musculature of the Male Genitalia of *Haemonchus contortus* 351
Kohls, Glen M. Siphonaptera: *Ptilopsylla dunni,* a New Species of Bat 361
Flea from Panama 361
DeEds, Floyd and John O. Thomas. Studies on Phenothiazine. XI. The Excretion of Phenothiazone 363
Johnson, Garth. Physiology of a Bacteria-Free Culture of *Trichomonas vaginalis.* IV. Effect of Hydrogen Ion Concentration and Oxygen Tension on Population 369
Goble, Frans C. *Crenosoma zederi* n. sp. (Nematoda: Metastrongyloidea), a New Lungworm from the Skunk (*Mephitis nigra*) 381
Perry, Mary Louise. A New Species of the Acanthocephalan Genus *Filicollis* 385
Fischthal, Jacob H. *Triganodistomum hypentelii* n. sp. (Trematoda: Lissorchiidae) from the Hog Sucker, *Hypentelium nigricans* (Le Sueur) 389
Philip, Cornelius B. Mechanical Transmission of Rabbit Fibroma (Shope) by Certain Haematophagous Bugs 395
Sprague, Victor and Juanita Ramsey. Further Observations on *Plistophora kudoi,* a Microsporidian of the Cockroach 399
Cable, R. M. and A. V. Hunninen. Studies on the Life History of *Siphodera vinaledwardsii* (Linton) (Trematoda: Cryptogonimidae) 407
Research Notes.
Erickson, Arnold B. and P. R. Highby. Parasites of the Woodland Caribou 423
Rothschild, Miriam. A Note on Immunity Reaction in the Black-Headed Gull (*Larus ridibundus* L.) Infected with *Maritrema oöcysta* Lebour, 1907 423
Hauschka, T. S. and M. I. Pennypacker. *Adelina deronis* n. sp., a New Coccidian Parasite of the Aquatic Oligochaete, *Dero limosa* 424
Levine, P. P. Excystation of Coccidial Oöcysts of the Chicken 426
Schneider, Morris D. A New Thermostabile Medium for the Prolonged Bacteria-Free Cultivation of *Trichomonas foetus* 428
Fuller, H. S. and Q. M. Geiman. South American Cutaneous Leishmaniasis in Experimental Animals 429

Forbes, William C. Helminths from the Norway Rat in Northeastern Ohio 431
Macy, Ralph W. The Life Cycle of the Trematode *Echinostomum callawayensis* Barker 431
American Society of Parasitologists.
Preliminary Announcement, 18th Annual Meeting, New York City, December 28–30, 1942 432

DECEMBER, 1942, NUMBER 6.

Dinaburg, A. G. The Efficiency of the Baermann Apparatus in the Recovery of Larvae of *Haemonchus contortus* 433
Rodaniche, Enid C. and Joseph B. Kirsner. The Effect of Sulfonamide Compounds on the Growth of *Endamoeba histolytica* in Culture 441
Goble, Frans C. and Arthur H. Cook. Notes on Nematodes from the Lungs and Frontal Sinuses of New York Fur-Bearers 451
Trager, William. A Strain of the Mosquito *Aedes aegypti* Selected for Susceptibility to the Avian Malaria Parasite *Plasmodium lophurae* .. 457
Williams, Charles O. Observations on the Life History and Taxonomic Relationships of the Trematode *Aspidogaster conchicola* 467
Levin, A. J. and T. C. Evans. The Use of Roentgen Radiation in Locating an Origin of Host Resistance to *Trichinella spiralis* Infections ... 477
Ewing, H. E. Remarks on the Taxonomy of Some American Chiggers (Trombiculinae), Including the Descriptions of New Genera and Species 485
Research Notes.
Harkema, Reinard. The Mourning Dove, a New Host of the Anoplocephalid Tapeworm, *Aporina delafondi* (Railliet) 495
Moore, Donald V. An Improved Technique for the Study of the Acanthor Stage in Certain Acanthocephalan Life Histories ... 495
Communication: Notice to Members, Subscribers, and Authors 496
Index for Volume 28, Numbers 1–6 497
(*For December Supplement consult its Author Index and Program.*)
American Society of Parasitologists.
Announcement of Postponement of New York Meeting 506

DECEMBER SUPPLEMENT, 1942.

American Society of Parasitologists.
Program, 18th Annual Meeting, New York City, Dec. 28–30, 1942 1
Author Index 7
Program, Symposium on Tropical Diseases, New York City, Dec. 29, 1942 8
Abstracts 9
Officers 31
In Memoriam 34
List of Members 35